

10659859\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10659859 on February 27, 2004

23 188/171 (11 OR, 12 XR)  
Class 188 : BRAKES  
188/381 FRICTIONAL VIBRATION DAMPER  
188/166 .Spring  
188/171 ..Electric release

20 188/161 (5 OR, 15 XR)  
Class 188 : BRAKES  
188/381 FRICTIONAL VIBRATION DAMPER  
188/158 .Electric  
188/161 ..Electromagnet

18 303/20 (3 OR, 15 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/20 ELECTRIC CONTROL

17 303/7 (11 OR, 6 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/5 MULTIPLE FLUID-RECEIVING DEVICES  
303/6.01 .Multiple motors  
303/7 ..Sectional train

11 310/93 (5 OR, 6 XR)  
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
310/10 DYNAMOELECTRIC  
310/40R .Rotary  
310/92 ..Torque-transmitting clutches or brakes  
310/93 ...Brake type

10 303/119.2 (2 OR, 8 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/121 SPEED-CONTROLLED  
303/113.1 .Having a valve system responsive to a wheel  
lock signal  
303/119.1 ..System controlled by solenoid valve  
303/119.2 ...System solenoid valve detail

10 310/77 (4 OR, 6 XR)  
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
310/10 DYNAMOELECTRIC  
310/40R .Rotary  
310/66 ..With other elements  
310/75R ...Drive mechanism  
310/77 ....Brake

8 188/164 (3 OR, 5 XR)  
Class 188 : BRAKES  
188/381 FRICTIONAL VIBRATION DAMPER  
188/158 .Electric  
188/161 ..Electromagnet  
188/164 ...Magnetic circuit

8 188/72.3 (0 OR, 8 XR)  
Class 188 : BRAKES  
188/67 ROD

10659859\_EAST

(6161653  
6321883  
5235303  
4174869  
4099790  
4984126  
5509509  
5931285  
5582275  
4757881  
6047805  
6050654  
4791344  
4375149  
4994725  
4386684  
5560557  
6158405  
5227702  
5829845  
4280737  
4402553  
4573350  
5014828  
5186286  
5368138  
5415253  
5433297  
5465815  
5704587  
5709347  
5739610  
5979292  
6203123  
6209968  
6209968  
6244395  
6253832  
4311373  
4594844  
4398252  
4760898  
6094024  
6142266  
4332199  
6009357  
6545852  
4778255  
5232195  
4276824) .pn.  
(4788463  
4425988  
3579973  
5046404  
5254528  
5378210  
5443132  
5967274  
6129025

10659859\_EAST

4326236  
5537865  
5705903  
5801497  
6149544  
6343504  
4581987  
5457372  
4354147  
4450397  
4455515  
4324180  
5778703  
5791442  
4937483  
5806937  
6084325  
3624438  
3624437  
4294337  
4327873  
4576051  
4951567  
5054587  
5045739  
5031900  
5189324  
5254061  
5417478  
5438909  
5479890  
5518087  
5615930  
5620236  
5647645  
5782542  
5785393  
5800025  
5830105  
5915507  
5941609) .pn.  
(5949147  
5970881  
6039410  
6050649  
6179390  
6325466  
6367588  
6429609  
6459182  
6471017  
6557673  
6557952  
6619759  
6655752  
4281552  
4296636  
4479844  
4290313

5245279  
5289131  
6198614  
6233131  
4325261  
4358693  
4367449  
4370892  
4401925  
4446691  
4449356  
4449355  
4449354  
4467388  
4544985  
4563904  
4577174  
4766770  
4782295  
5436873  
5495886  
5523746  
5538581  
5555484  
5566376  
5610794  
5844143  
5929732  
6153959  
6175199  
6239679  
5804901) .pn.  
(6155654  
5351042  
5481143  
6100491  
6165095  
6166896  
4476450  
5409194  
5815057  
4530428  
4793263  
4847726  
4905031  
5343145  
5345431  
5375506  
5490124  
5653514  
6003481  
6066999  
6106236  
6364294  
6655328  
4366385  
4449835  
4464576  
4935677

10659859\_EAST

4994698  
5014030  
4932707  
5601027  
5460074  
3668445  
4589706  
4785855  
5605088  
5842774  
6033034  
4316599  
5361675  
6156989  
5238095  
4336132  
4475826  
4430592  
4575160  
5388669  
5555962  
5868229  
5927453) .pn.  
(6070705  
6202804  
3912196  
3840096  
4170278  
4351423  
4352415  
4368614  
4387579  
4553653  
4609080  
4811820  
4828078  
4958780  
5057728  
5176231  
5178441  
5199532  
5253738  
5332302  
5404852  
5479844  
5547059  
5889476  
5924510  
6019185  
6041879  
6082480  
6102493  
6125975  
6161659  
6290030  
6332493  
6341676  
6378743  
6488133

10659859\_EAST

4903510  
5202539  
3593630  
3590969  
3791418  
4022306  
4265345  
4326609  
4333207  
4386683  
4414806  
4437129  
4548373  
4800799) .pn.  
(4811994  
5211257  
5384612  
5398731  
5462502  
5713445  
5915668  
6109176  
6148967  
6267207  
6311808  
6423008  
6457666  
6464025  
4543519  
6047534  
5216217  
3659170  
4030007  
4034856  
4145645  
4307793  
4360753  
4384250  
4450388  
4471855  
4479565  
4509620  
4547692  
4560913  
4792734  
4799557  
4833386  
4862052  
4916370  
4978897  
4986340  
5003241  
5345649  
5347895  
5583406  
5583412  
6037728  
6264005  
5483615

10659859\_EAST

6006553

6057614

4589534

5988327

5460585) .pn.

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10659859 on February 27, 2004

## Original Classifications

11 188/171  
11 303/7  
6 73/861.12  
6 303/114.3  
5 188/161  
5 310/93  
4 57/284  
4 188/138  
4 303/3  
4 310/77  
3 57/88  
3 101/216  
3 188/164  
3 188/71.8  
3 192/12R  
3 303/20  
3 361/144  
2 73/118.1  
2 73/861.17  
2 91/369.1  
2 123/90.11  
2 164/502  
2 180/197  
2 180/247  
2 187/296  
2 188/196BA  
2 188/77R  
2 192/18B  
2 192/35  
2 242/486.8  
2 251/129.08  
2 290/38R  
2 303/113.3  
2 303/119.2  
2 310/105  
2 318/760  
2 318/762  
2 335/132  
2 340/5.61  
2 361/160  
2 361/206

## Cross-Reference Classifications

15 188/161  
15 303/20  
12 188/171  
8 188/72.3  
8 303/119.2  
6 188/156  
6 188/158  
6 188/3R  
6 303/124  
6 303/7  
6 310/77



6 310/93  
6 318/375  
5 91/376R  
5 188/164  
5 242/150M  
5 303/113.4  
5 318/757  
4 57/283  
4 57/354  
4 57/91  
4 187/288  
4 188/356  
4 188/72.1  
4 188/72.9  
4 192/56.54  
4 192/90  
4 242/131  
3 60/547.1  
3 73/861.17  
3 180/249  
3 188/106P  
3 188/162  
3 188/163  
3 188/267  
3 192/111A  
3 192/48.92  
3 192/56.62  
3 242/422.2  
3 318/368  
3 318/372  
3 318/439  
3 318/759  
3 318/760  
3 482/903  
2 57/100  
2 70/283  
2 73/861.16  
2 91/433  
2 91/459  
2 101/DIG 41  
2 104/286  
2 104/293  
2 112/275  
2 123/179.25  
2 137/625.65  
2 164/466  
2 180/168  
2 187/296  
2 187/351  
2 188/106F  
2 188/166  
2 188/180  
2 188/196V  
2 188/71.8  
2 188/72.8  
2 192/18B  
2 192/81C  
2 192/84.81  
2 192/93A

10659859\_CLS

2 242/419.3  
 2 251/129.1  
 2 251/129.11  
 2 251/129.16  
 2 303/113.3  
 2 303/119.1  
 2 303/15  
 2 303/24.1  
 2 303/3  
 2 303/900  
 2 310/105  
 2 310/112  
 2 310/114  
 2 310/12  
 2 310/218  
 2 310/51  
 2 310/53  
 2 310/76  
 2 310/94  
 2 318/139  
 2 318/371  
 2 318/466  
 2 318/763  
 2 324/235  
 2 335/131  
 2 335/203  
 2 335/245  
 2 335/78  
 2 336/136  
 2 340/5.7  
 2 361/144  
 2 361/152  
 2 361/160  
 2 388/806  
 2 482/5  
 2 482/63

Combined Classifications

23 188/171  
 20 188/161  
 18 303/20  
 17 303/7  
 11 310/93  
 10 303/119.2  
 10 310/77  
 8 188/164  
 8 188/72.3  
 7 188/156  
 7 303/114.3  
 7 303/124  
 7 318/375  
 6 73/861.12  
 6 188/158  
 6 188/3R  
 6 303/3  
 6 318/757  
 5 73/861.17  
 5 91/376R  
 5 187/288

5 188/138  
5 188/71.8  
5 242/150M  
5 303/113.4  
5 318/760  
5 361/144  
4 57/283  
4 57/284  
4 57/354  
4 57/91  
4 187/296  
4 188/106P  
4 188/162  
4 188/267  
4 188/356  
4 188/72.1  
4 188/72.9  
4 192/18B  
4 192/56.54  
4 192/90  
4 242/131  
4 303/113.3  
4 310/105  
4 318/368  
4 318/372  
4 318/759  
4 361/160  
3 57/88  
3 60/547.1  
3 101/216  
3 180/249  
3 188/163  
3 192/111A  
3 192/12R  
3 192/35  
3 192/48.92  
3 192/56.62  
3 192/84.81  
3 242/422.2  
3 310/51  
3 318/139  
3 318/439  
3 318/763  
3 361/206  
3 482/5  
3 482/63  
3 482/903  
2 57/100  
2 70/283  
2 73/118.1  
2 73/861.16  
2 91/369.1  
2 91/433  
2 91/459  
2 101/DIG 41  
2 104/286  
2 104/293  
2 112/275  
2 123/179.25

2 123/90.11  
2 137/625.65  
2 164/466  
2 164/502  
2 180/168  
2 180/197  
2 180/247  
2 187/351  
2 188/1.11E  
2 188/106F  
2 188/166  
2 188/180  
2 188/196BA  
2 188/196V  
2 188/72.6  
2 188/72.7  
2 188/72.8  
2 188/77R  
2 192/16  
2 192/81C  
2 192/93A  
2 242/149  
2 242/419.3  
2 242/419.9  
2 242/486.8  
2 251/129.08  
2 251/129.1  
2 251/129.11  
2 251/129.15  
2 251/129.16  
2 290/38R  
2 303/116.1  
2 303/117.1  
2 303/119.1  
2 303/15  
2 303/191  
2 303/24.1  
2 303/900  
2 310/112  
2 310/114  
2 310/12  
2 310/218  
2 310/53  
2 310/74  
2 310/76  
2 310/94  
2 318/138  
2 318/254  
2 318/269  
2 318/371  
2 318/376  
2 318/466  
2 318/567  
2 318/762  
2 324/235  
2 335/131  
2 335/132  
2 335/203  
2 335/245

10659859\_CLS

2 335/306  
2 335/78  
2 336/136  
2 340/5.61  
2 340/5.7  
2 361/115  
2 361/147  
2 361/152  
2 361/170  
2 388/806  
2 477/13  
2 701/70

10659859\_CLSTITLES

- 188/71.1 .Axially movable brake element or housing  
therefor
- 188/72.1 ..With means for actuating brake element
- 188/72.3 ...And means for retracting brake element
  
- 7 188/156 (1 OR, 6 XR)  
Class 188 : BRAKES  
188/381 FRICTIONAL VIBRATION DAMPER  
188/156 .Electric and mechanical
  
- 7 303/114.3 (6 OR, 1 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/121 SPEED-CONTROLLED  
303/113.1 .Having a valve system responsive to a wheel  
lock signal  
303/114.3 ..Including pneumatic power booster
  
- 7 303/124 (1 OR, 6 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/121 SPEED-CONTROLLED  
303/123 .For a tractor-trailer type vehicle  
303/124 ..Electric brake
  
- 7 318/375 (1 OR, 6 XR)  
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
318/362 BRAKING  
318/375 .Dynamic braking
  
- 6 73/861.12 (6 OR, 0 XR)  
Class 073 : MEASURING AND TESTING  
73/861 VOLUME OR RATE OF FLOW  
73/861.08 .By measuring electrical or magnetic properties  
  
73/861.11 ..Electromagnetic induction (e.g., Faraday  
type)  
73/861.12 ...With detecting electrodes
  
- 6 188/158 (0 OR, 6 XR)  
Class 188 : BRAKES  
188/381 FRICTIONAL VIBRATION DAMPER  
188/158 .Electric
  
- 6 188/3R (0 OR, 6 XR)  
Class 188 : BRAKES  
188/2R VEHICLE  
188/3R .Train
  
- 6 303/3 (4 OR, 2 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/2 MULTIPLE SYSTEMS  
303/3 .Fluid pressure and electric
  
- 6 318/757 (1 OR, 5 XR)  
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
318/727 INDUCTION MOTOR SYSTEMS  
318/757 .Braking
  
- 5 73/861.17 (2 OR, 3 XR)  
Class 073 : MEASURING AND TESTING

10659859\_CLSTITLES

- 73/861 VOLUME OR RATE OF FLOW
- 73/861.08 .By measuring electrical or magnetic properties
- 73/861.11 ..Electromagnetic induction (e.g., Faraday type)
- 73/861.12 ...With detecting electrodes
- 73/861.16 ....Including electrically interconnected or synchronized input and output circuit
- 73/861.17 .....Selective or periodic sampling
- 5 91/376R (0 OR, 5 XR)
  - Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
  - 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE FLUID CONTROL
  - 91/368 .Follower type
  - 91/374 ..Plural movable valve parts
  - 91/376R ...One movable part unitary with working member
- 5 187/288 (1 OR, 4 XR)
  - Class 187 : ELEVATOR, INDUSTRIAL LIFT TRUCK, OR STATIONARY LIFT FOR VEHICLE
  - 187/250 HAVING SPECIFIC LOAD SUPPORT DRIVE-MEANS OR ITS CONTROL
  - 187/276 .Includes control for power source of drive-means
  - 187/277 ..With specific electrical component
  - 187/288 ...Control actuates mechanical braking means for power source
- 5 188/138 (4 OR, 1 XR)
  - Class 188 : BRAKES
  - 188/381 FRICTIONAL VIBRATION DAMPER
  - 188/110 .Automatic
  - 188/135 ..Momentum
  - 188/137 ...Electric control
  - 188/138 ....Vehicle
- 5 188/71.8 (3 OR, 2 XR)
  - Class 188 : BRAKES
  - 188/67 ROD
  - 188/71.1 .Axially movable brake element or housing therefor
  - 188/71.7 ..With means to adjust for wear of brake
  - 188/71.8 ...Self-adjusting means
- 5 242/150M (0 OR, 5 XR)
  - Class 242 : WINDING, TENSIONING, OR GUIDING
  - 242/147R STRAND TENSIONING DEVICE
  - 242/149 .Clamp
  - 242/150R ..Disk type
  - 242/150M ...Magnetic
- 5 303/113.4 (0 OR, 5 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/113.4 ..Including a stroke sensor

## 10659859\_CLSTITLES

- 5 318/760 (2 OR, 3 XR)  
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
 318/727 INDUCTION MOTOR SYSTEMS  
 318/757 .Braking  
 318/759 ..Dynamic braking  
 318/760 ...Direct current primary winding braking  
 circuit
- 5 361/144 (3 OR, 2 XR)  
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
  
 361/139 CONTROL CIRCUITS FOR ELECTROMAGNETIC DEVICES  
 361/143 .Systems for magnetizing, demagnetizing, or  
 controlling the magnetic field  
 361/144 ..For lifting or holding
- 4 57/283 (0 OR, 4 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/282 .Twist setting  
 57/283 ..With twist variation
- 4 57/284 (4 OR, 0 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/282 .Twist setting  
 57/284 ..False twist crimp
- 4 57/354 (0 OR, 4 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/352 .Strand guiding or guarding  
 57/354 ..Separator or balloon limiter
- 4 57/91 (0 OR, 4 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/90 .Feeding  
 57/91 ..Irregular
- 4 187/296 (2 OR, 2 XR)  
 Class 187 : ELEVATOR, INDUSTRIAL LIFT TRUCK, OR  
 STATIONARY LIFT FOR VEHICLE  
 187/250 HAVING SPECIFIC LOAD SUPPORT DRIVE-MEANS OR ITS  
 CONTROL  
 187/276 .Includes control for power source of  
 drive-means  
 187/277 ..With specific electrical component  
 187/289 ...For electric power source  
 187/293 ....Controls power source speed  
 187/296 .....Limited to power source (i.e., motor)  
 utilizing A.C. power
- 4 188/106P (1 OR, 3 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/105 .Multiple  
 188/106R ..Vehicle



- 188/106P      ...Plural systems
- 4 188/162      (1 OR, 3 XR)  
     Class 188 : BRAKES  
     188/381      FRICTIONAL VIBRATION DAMPER  
     188/158      .Electric  
     188/161      ..Electromagnet  
     188/162      ...Rotary motor
- 4 188/267      (1 OR, 3 XR)  
     Class 188 : BRAKES  
     188/266      INTERNAL-RESISTANCE MOTION RETARDER  
     188/267      .Using magnetic flux
- 4 188/356      (0 OR, 4 XR)  
     Class 188 : BRAKES  
     188/381      FRICTIONAL VIBRATION DAMPER  
     188/151R      .Fluid pressure  
     188/152      ..Road vehicle  
     188/355      ...With nonmanual fluid-power source  
     188/356      ....Vacuum power
- 4 188/72.1      (0 OR, 4 XR)  
     Class 188 : BRAKES  
     188/67      ROD  
     188/71.1      .Axially movable brake element or housing  
                          therefor  
     188/72.1      ..With means for actuating brake element
- 4 188/72.9      (0 OR, 4 XR)  
     Class 188 : BRAKES  
     188/67      ROD  
     188/71.1      .Axially movable brake element or housing  
                          therefor  
     188/72.1      ..With means for actuating brake element  
     188/72.9      ...By pivoted lever
- 4 192/18B      (2 OR, 2 XR)  
     Class 192 : CLUTCHES AND POWER-STOP CONTROL  
     192/12R      CLUTCH AND BRAKE  
     192/18R      .Sliding operation  
     192/18B      ..Electric and magnetic
- 4 192/56.54      (0 OR, 4 XR)  
     Class 192 : CLUTCHES AND POWER-STOP CONTROL  
     192/30R      CLUTCHES  
     192/54.1      .Torque responsive  
     192/56.1      ..Overload release  
     192/56.5      ...Clutch elements remain disengaged after  
                          overload corrected  
     192/56.51      ....Having separate latch to hold clutch  
                          elements disengaged  
     192/56.52      .....Axially engaged  
     192/56.53      .....Positive  
     192/56.54      .....Ball or roller
- 4 192/90      (0 OR, 4 XR)  
     Class 192 : CLUTCHES AND POWER-STOP CONTROL  
     192/30R      CLUTCHES

## 10659859\_CLSTITLES

- 192/82R .Operators
- 192/89.2 ..Spring engaged
- 192/90 ...Electric release
- 4 242/131 (0 OR, 4 XR)
  - Class 242 : WINDING, TENSIONING, OR GUIDING
  - 242/129.5 SUPPORT FOR A STRAND MATERIAL HOLDER
  - 242/130 .For bobbins (i.e., commercial-type strand packages)
  - 242/131 ..Creel
- 4 303/113.3 (2 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/113.2 ..With traction control
  - 303/113.3 ...Including booster
- 4 310/105 (2 OR, 2 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/92 ..Torque-transmitting clutches or brakes
  - 310/103 ...Magnetic field type
  - 310/105 ....Induced or eddy current type
- 4 318/368 (1 OR, 3 XR)
  - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
  - 318/362 BRAKING
  - 318/364 .Automatic and/or with time-delay means
  - 318/366 ..Condition of motor or driven device
  - 318/368 ...Armature or primary circuit voltage or terminal or counter e.m.f. voltage
- 4 318/372 (1 OR, 3 XR)
  - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
  - 318/362 BRAKING
  - 318/372 .Friction braking
- 4 318/759 (1 OR, 3 XR)
  - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
  - 318/727 INDUCTION MOTOR SYSTEMS
  - 318/757 .Braking
  - 318/759 ..Dynamic braking
- 4 361/160 (2 OR, 2 XR)
  - Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
  - 361/139 CONTROL CIRCUITS FOR ELECTROMAGNETIC DEVICES
  - 361/160 .For relays or solenoids
- 3 57/88 (3 OR, 0 XR)
  - Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING
  - 57/1R APPARATUS AND PROCESSES
  - 57/78 .Stopping or starting
  - 57/88 ..Spindle stopping
- 3 60/547.1 (0 OR, 3 XR)

10659859\_CLSTITLES

- Class 060 : POWER PLANTS
  - 60/325 PRESSURE FLUID SOURCE AND MOTOR
  - 60/533 .Pulsator
  - 60/547.1 ..With control of or by a separate power fluid, etc.
  
- 3 101/216 (3 OR, 0 XR)
  - Class 101 : PRINTING
  - 101/212 ROLLING CONTACT MACHINES
  - 101/216 .Rotary
  
- 3 180/249 (0 OR, 3 XR)
  - Class 180 : MOTOR VEHICLES
  - 180/233 HAVING FOUR WHEELS DRIVEN
  - 180/248 .With differential means for driving two wheel sets at dissimilar speeds
  - 180/249 ..And means for locking out the differential means
  
- 3 188/163 (0 OR, 3 XR)
  - Class 188 : BRAKES
  - 188/381 FRICTIONAL VIBRATION DAMPER
  - 188/158 .Electric
  - 188/161 ..Electromagnet
  - 188/163 ...Solenoid
  
- 3 192/111A (0 OR, 3 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/30R CLUTCHES
  - 192/111R .Wear compensators
  - 192/111A ..Automatic wear compensators
  
- 3 192/12R (3 OR, 0 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/12R CLUTCH AND BRAKE
  
- 3 192/35 (2 OR, 1 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/30R CLUTCHES
  - 192/31 .Automatic
  - 192/32 ..Manual control
  - 192/35 ...Pilot mechanism
  
- 3 192/48.92 (0 OR, 3 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/30R CLUTCHES
  - 192/48.1 .Plural clutch-assembly
  - 192/48.92 ..Including unirotationally engaging clutch-elements
  
- 3 192/56.62 (0 OR, 3 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/30R CLUTCHES
  - 192/54.1 .Torque responsive
  - 192/56.1 ..Overload release
  - 192/56.6 ...Axially engaged
  - 192/56.61 ....Positive
  - 192/56.62 .....Ball or roller

## 10659859\_CLSTITLES

- 3 192/84.81 (1 OR, 2 XR)  
 Class 192 : CLUTCHES AND POWER-STOP CONTROL  
 192/30R CLUTCHES  
 192/82R .Operators  
 192/84.1 ..Electric or magnetic  
 192/84.8 ...Operator for transversely engaging elements  
 192/84.81 ....Coil spring
- 3 242/422.2 (0 OR, 3 XR)  
 Class 242 : WINDING, TENSIONING, OR GUIDING  
 242/410 TENSION CONTROL OR BRAKE  
 242/416 .Supply controlled  
 242/422 ..Yieldable coil brake  
 242/422.2 ...Fluid or magnetic brake or operator
- 3 310/51 (1 OR, 2 XR)  
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/51 ..Vibration or noise suppression
- 3 318/139 (1 OR, 2 XR)  
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
 318/139 BATTERY-FED MOTOR SYSTEMS
- 3 318/439 (0 OR, 3 XR)  
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
 318/439 MOTOR COMMUTATION CONTROL SYSTEMS
- 3 318/763 (1 OR, 2 XR)  
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
 318/727 INDUCTION MOTOR SYSTEMS  
 318/757 .Braking  
 318/763 ..Reversal of power to primary winding
- 3 361/206 (2 OR, 1 XR)  
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
 361/139 CONTROL CIRCUITS FOR ELECTROMAGNETIC DEVICES  
 361/160 .For relays or solenoids  
 361/206 ..Particular relay or solenoid
- 3 482/5 (1 OR, 2 XR)  
 Class 482 : EXERCISE DEVICES  
 482/1 HAVING SPECIFIC ELECTRICAL FEATURE  
 482/4 .Equipment control  
 482/5 ..Amount of resistance
- 3 482/63 (1 OR, 2 XR)  
 Class 482 : EXERCISE DEVICES  
 482/51 INVOLVING USER TRANSLATION OR PHYSICAL  
 SIMULATION THEREOF  
 482/57 .Bicycling  
 482/63 ..Utilizing specific resistance generating  
 structure
- 3 482/903 (0 OR, 3 XR)  
 Class 482 : EXERCISE DEVICES

## 10659859\_CLSTITLES

482/903 UTILIZING ELECTROMAGNETIC FORCE RESISTANCE

- 2 57/100 (0 OR, 2 XR)  
     Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
     57/1R      APPARATUS AND PROCESSES  
     57/92      .Driving  
     57/100     ..Electric
- 2 70/283 (0 OR, 2 XR)  
     Class 070 : LOCKS  
     70/266     OPERATING MECHANISM  
     70/275     .Using a powered device (e.g., motor)  
     70/277     ..Electrical type (e.g., solenoid)  
     70/283     ...Dogging manual operator
- 2 73/118.1 (2 OR, 0 XR)  
     Class 073 : MEASURING AND TESTING  
     73/116     MOTOR AND ENGINE TESTING  
     73/118.1    .Testing auxiliary unit
- 2 73/861.16 (0 OR, 2 XR)  
     Class 073 : MEASURING AND TESTING  
     73/861     VOLUME OR RATE OF FLOW  
     73/861.08    .By measuring electrical or magnetic properties  
     73/861.11    ..Electromagnetic induction (e.g., Faraday  
                   type)  
     73/861.12    ...With detecting electrodes  
     73/861.16    ....Including electrically interconnected or  
                   synchronized input and output circuit
- 2 91/369.1 (2 OR, 0 XR)  
     Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
     91/358R     WORKING MEMBER POSITION FEEDBACK TO MOTIVE  
                   FLUID CONTROL  
     91/368     .Follower type  
     91/369.1    ..With relatively movable working and output  
                   members reacting on input member
- 2 91/433 (0 OR, 2 XR)  
     Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
     91/418     WITH MOTIVE FLUID VALVE  
     91/433     .Both inlet and exhaust controlled by motive  
                   fluid pressure in supply line or chamber
- 2 91/459 (0 OR, 2 XR)  
     Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
     91/418     WITH MOTIVE FLUID VALVE  
     91/459     .Electrically operated (275) (361)
- 2 101/DIG 41 (0 OR, 2 XR)  
     Class 101 : PRINTING  
     101/DIG 41    MEANS FOR BRAKING PRESS CYLINDERS
- 2 104/286 (0 OR, 2 XR)  
     Class 104 : RAILWAYS  
     104/281     MAGNETICALLY SUSPENDED CAR  
     104/286     .Construction or composition of suspension  
                   elements

10659859\_CLSTITLES

- 2 104/293 (0 OR, 2 XR)
  - Class 104 : RAILWAYS
  - 104/287 CAR-CARRIED PROPULSION SYSTEM
  - 104/288 .Electric
  - 104/290 ..Linear motor
  - 104/293 ...Including means to control gap
  
- 2 112/275 (0 OR, 2 XR)
  - Class 112 : SEWING
  - 112/270 ELEMENTS
  - 112/271 .Starting or stopping
  - 112/274 ..With element positioning
  - 112/275 ...Electrically operated
  
- 2 123/179.25 (0 OR, 2 XR)
  - Class 123 : INTERNAL-COMBUSTION ENGINES
  - 123/179.1 STARTING DEVICE
  - 123/179.25 .Having specific mounting or drive connection  
for electric starter motor
  
- 2 123/90.11 (2 OR, 0 XR)
  - Class 123 : INTERNAL-COMBUSTION ENGINES
  - 123/90.1 POPPET VALVE OPERATING MECHANISM
  - 123/90.11 .Electrical system
  
- 2 137/625.65 (0 OR, 2 XR)
  - Class 137 : FLUID HANDLING
  - 137/561R SYSTEMS
  - 137/625 .Multi-way valve unit
  - 137/625.2 ..Supply and exhaust
  - 137/625.65 ...Motor-operated
  
- 2 164/466 (0 OR, 2 XR)
  - Class 164 : METAL FOUNDRY
  - 164/1 PROCESS
  - 164/47 .Shaping liquid metal against a forming surface
  
  - 164/459 ..Continuous or semicontinuous casting
  - 164/466 ...Utilizing magnetic force
  
- 2 164/502 (2 OR, 0 XR)
  - Class 164 : METAL FOUNDRY
  - 164/146 INCLUDING MEANS TO DIRECTLY APPLY MAGNETIC  
FORCE TO WORK OR TO MANIPULATE OR HOLD SHAPING MEANS
  - 164/147.1 .By electromagnetic means
  - 164/502 ..In continuous casting apparatus
  
- 2 180/168 (0 OR, 2 XR)
  - Class 180 : MOTOR VEHICLES
  - 180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIVE  
TO ELECTROMAGNETIC RADIATION, MAGNETIC FORCE, OR SOUND  
WAVES RECEIVED FROM SOURCE, OR REFLECTED FROM OBJECT OR  
SURFACE, LOCATED APART FROM VEHICLE
  - 180/168 .Having controlling means adapted to interact  
with stationary means which describes course of vehicle's  
travel
  
- 2 180/197 (2 OR, 0 XR)

10659859\_CLSTITLES

- Class 180 : MOTOR VEHICLES  
 180/197 WITH MEANS FOR DETECTING WHEEL SLIP DURING  
 VEHICLE ACCELERATION AND CONTROLLING IT BY REDUCING  
 APPLICATION OF POWER TO WHEEL
- 2 180/247 (2 OR, 0 XR)  
 Class 180 : MOTOR VEHICLES  
 180/233 HAVING FOUR WHEELS DRIVEN  
 180/247 .With manually operated means for disengaging  
 drive to one or more, but fewer than all, of the four  
 wheels
- 2 187/351 (0 OR, 2 XR)  
 Class 187 : ELEVATOR, INDUSTRIAL LIFT TRUCK, OR  
 STATIONARY LIFT FOR VEHICLE  
 187/351 HAVING SPECIFIC MEANS CONTACTING OR ON LOAD  
 SUPPORT FOR STOPPING OR SLOWING THEREOF
- 2 188/1.11E (1 OR, 1 XR)  
 Class 188 : BRAKES  
 188/1.11R WITH CONDITION INDICATOR  
 188/1.11E .Electrical
- 2 188/106F (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/105 .Multiple  
 188/106R ..Vehicle  
 188/106F ...Fluid and mechanical
- 2 188/166 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/166 .Spring
- 2 188/180 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/174 .Weight  
 188/180 ..Regulators
- 2 188/196BA (2 OR, 0 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/196R .Slack  
 188/196B ..Ratchet  
 188/196BA ...Rotatable
- 2 188/196V (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/196R .Slack  
 188/196V ..Screw, shim or cam
- 2 188/72.6 (1 OR, 1 XR)  
 Class 188 : BRAKES  
 188/67 ROD  
 188/71.1 .Axially movable brake element or housing  
 therefor

10659859\_CLSTITLES

- 188/72.1      ..With means for actuating brake element
- 188/72.4      ...By fluid pressure piston
- 188/72.6      ....And/or mechanical linkage
  
- 2 188/72.7      (1 OR, 1 XR)
  - Class 188 : BRAKES
  - 188/67      ROD
  - 188/71.1     .Axially movable brake element or housing therefor
  - 188/72.1     ..With means for actuating brake element
  - 188/72.7     ...By inclined surface (e.g., wedge, cam or screw)
  
- 2 188/72.8      (0 OR, 2 XR)
  - Class 188 : BRAKES
  - 188/67      ROD
  - 188/71.1     .Axially movable brake element or housing therefor
  - 188/72.1     ..With means for actuating brake element
  - 188/72.7     ...By inclined surface (e.g., wedge, cam or screw)
  - 188/72.8     ....Screw or helical cam
  
- 2 188/77R      (2 OR, 0 XR)
  - Class 188 : BRAKES
  - 188/67      ROD
  - 188/74      ..Transversely movable
  - 188/77R      ..Strap
  
- 2 192/16      (1 OR, 1 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/12R      CLUTCH AND BRAKE
  - 192/15      ..Automatic check and release
  - 192/16      ..Clutch and brake same member
  
- 2 192/81C      (0 OR, 2 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/30R      CLUTCHES
  - 192/66.1     .Axially engaging
  - 192/79      ..Exterior
  - 192/80      ...Strap
  - 192/81R      ....Multiple folds
  - 192/81C      .....Coil
  
- 2 192/93A      (0 OR, 2 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/30R      CLUTCHES
  - 192/82R      ..Operators
  - 192/93R      ..Cam
  - 192/93A      ...Axially thrusting cams rotatable about clutch axis
  
- 2 242/149      (1 OR, 1 XR)
  - Class 242 : WINDING, TENSIONING, OR GUIDING
  - 242/147R     STRAND TENSIONING DEVICE
  - 242/149      .Clamp
  
- 2 242/419.3     (0 OR, 2 XR)
  - Class 242 : WINDING, TENSIONING, OR GUIDING



10659859\_CLSTITLES

- 242/410 TENSION CONTROL OR BRAKE
- 242/416 .Supply controlled
- 242/419 ..Drag on running material
- 242/419.3 ...Pneumatic or magnetic
  
- 2 242/419.9 (1 OR, 1 XR)
  - Class 242 : WINDING, TENSIONING, OR GUIDING
  - 242/410 TENSION CONTROL OR BRAKE
  - 242/416 .Supply controlled
  - 242/419 ..Drag on running material
  - 242/419.8 ...Rotary
  - 242/419.9 ....With brake or clutch
  
- 2 242/486.8 (2 OR, 0 XR)
  - Class 242 : WINDING, TENSIONING, OR GUIDING
  - 242/470 HELICAL OR RANDOM WINDING OF MATERIAL
  - 242/484.6 .Including particular drive
  - 242/486.8 ..Drive engages spindle
  
- 2 251/129.08 (2 OR, 0 XR)
  - Class 251 : VALVES AND VALVE ACTUATION
  - 251/129.01 ELECTRICALLY ACTUATED VALVE
  - 251/129.08 .Having means to produce proportional flow
  
- 2 251/129.1 (0 OR, 2 XR)
  - Class 251 : VALVES AND VALVE ACTUATION
  - 251/129.01 ELECTRICALLY ACTUATED VALVE
  - 251/129.09 .Solenoid having plural coils
  - 251/129.1 ..Coils have common axis
  
- 2 251/129.11 (0 OR, 2 XR)
  - Class 251 : VALVES AND VALVE ACTUATION
  - 251/129.01 ELECTRICALLY ACTUATED VALVE
  - 251/129.11 .Rotary electric actuator
  
- 2 251/129.15 (1 OR, 1 XR)
  - Class 251 : VALVES AND VALVE ACTUATION
  - 251/129.01 ELECTRICALLY ACTUATED VALVE
  - 251/129.15 .Including solenoid
  
- 2 251/129.16 (0 OR, 2 XR)
  - Class 251 : VALVES AND VALVE ACTUATION
  - 251/129.01 ELECTRICALLY ACTUATED VALVE
  - 251/129.15 .Including solenoid
  - 251/129.16 ..Having plate-shaped armature
  
- 2 290/38R (2 OR, 0 XR)
  - Class 290 : PRIME-MOVER DYNAMO PLANTS
  - 290/7 ELECTRIC CONTROL
  - 290/38R .Electric-starting motor
  
- 2 303/116.1 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/116.1 ..Including pump with system solenoid valve
  
- 2 303/117.1 (1 OR, 1 XR)

10659859\_CLSTITLES

- Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/117.1 ..Spool valve
- 2 303/119.1 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/119.1 ..System controlled by solenoid valve
- 2 303/15 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/13 MULTIPLE CONTROL
  - 303/15 .Fluid and electric
- 2 303/191 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/191 .Odd condition or device detection (e.g., fluid or brake temperature, hillholder, anti-squeal controller acoustic emission)
- 2 303/24.1 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/24.1 INERTIA CONTROL
- 2 303/900 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/900 ABS THROTTLE CONTROL
- 2 310/112 (0 OR, 2 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/112 ..Plural units, structurally united
- 2 310/114 (0 OR, 2 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/114 ..Plural rotary elements
- 2 310/12 (0 OR, 2 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/12 .Linear
- 2 310/218 (0 OR, 2 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/179 ..Windings and core structure
  - 310/216 ...Core features
  - 310/218 ....Pole assembly and securing means

## 10659859\_CLSTITLES

- 2 310/53 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/52 ..Cooling or fluid contact  
     310/53 ...With control means
- 2 310/74 (1 OR, 1 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/74 ...Inertia or fly-wheel device
- 2 310/76 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/75R ...Drive mechanism  
     310/76 ....Brake and clutch
- 2 310/94 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/92 ..Torque-transmitting clutches or brakes  
     310/94 ...Automatic control
- 2 318/138 (1 OR, 1 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/138 SPACE-DISCHARGE-DEVICE COMMUTATED MOTOR
- 2 318/254 (1 OR, 1 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/254 SELF-COMMUTATED IMPULSE OR RELUCTANCE MOTORS
- 2 318/269 (1 OR, 1 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/255 PLURAL DIVERSE MOTOR CONTROLS  
     318/268 .Running-speed control  
     318/269 ..With braking
- 2 318/371 (0 OR, 2 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/362 BRAKING  
     318/370 .Plural, diverse or diversely controlled  
             braking means  
     318/371 ..Including both friction braking "plugging"  
             and/or dynamic braking
- 2 318/376 (1 OR, 1 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/362 BRAKING  
     318/375 .Dynamic braking  
     318/376 ..Regenerative
- 2 318/466 (0 OR, 2 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS

## 10659859\_CLSTITLES

- 318/445 AUTOMATIC AND/OR WITH TIME-DELAY MEANS (E.G.,  
AUTOMATIC STARTING AND/OR STOPPING)
- 318/466 .Movement, position, or limit-of-travel
- 2 318/567 (1 OR, 1 XR)  
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
318/560 POSITIONAL SERVO SYSTEMS (E.G.,  
SERVOMECHANISMS)  
318/567 .Program- or pattern-controlled systems
- 2 318/762 (2 OR, 0 XR)  
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
318/727 INDUCTION MOTOR SYSTEMS  
318/757 .Braking  
318/759 ..Dynamic braking  
318/760 ...Direct current primary winding braking  
circuit  
318/762 ....With a.c. to d.c. conversion circuit
- 2 324/235 (0 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/200 MAGNETIC  
324/228 .With means to create magnetic field to test  
material  
324/234 ..Electrically energized nonforce type sensor  
324/235 ...Noncoil type
- 2 335/131 (0 OR, 2 XR)  
Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
MAGNETS, AND ELECTROMAGNETS  
335/2 ELECTROMAGNETICALLY ACTUATED SWITCHES  
335/106 .Multiple contact type  
335/127 ..Simultaneously actuated  
335/131 ...By reciprocating armature
- 2 335/132 (2 OR, 0 XR)  
Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
MAGNETS, AND ELECTROMAGNETS  
335/2 ELECTROMAGNETICALLY ACTUATED SWITCHES  
335/106 .Multiple contact type  
335/132 ..With adjustable, replaceable or  
interchangeable structural features
- 2 335/203 (0 OR, 2 XR)  
Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
MAGNETS, AND ELECTROMAGNETS  
335/2 ELECTROMAGNETICALLY ACTUATED SWITCHES  
335/203 .With armature structure
- 2 335/245 (0 OR, 2 XR)  
Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
MAGNETS, AND ELECTROMAGNETS  
335/209 MAGNETS AND ELECTROMAGNETS  
335/220 .With magneto-mechanical motive device (e.g.,  
electromagnet with armature)  
335/243 ..Alternating current type  
335/244 ...Flux phase displacement or varying means  
335/245 ....Shading coil

## 10659859\_CLSTITLES

- 2 335/306 (1 OR, 1 XR)  
 Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
 MAGNETS, AND ELECTROMAGNETS  
 335/209 MAGNETS AND ELECTROMAGNETS  
 335/296 .Magnet structure or material  
 335/302 ..Permanent magnets  
 335/306 ...Plural magnets
- 2 335/78 (0 OR, 2 XR)  
 Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
 MAGNETS, AND ELECTROMAGNETS  
 335/2 ELECTROMAGNETICALLY ACTUATED SWITCHES  
 335/78 .Polarity-responsive
- 2 336/136 (0 OR, 2 XR)  
 Class 336 : INDUCTOR DEVICES  
 336/130 RELATIVELY MOVABLE CORE AND COIL  
 336/136 .Telescoping magnetic body and coil
- 2 340/5.61 (2 OR, 0 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/5.1 .Intelligence comparison for controlling  
 340/5.2 ..Authorization control (e.g., entry into an  
 area)  
 340/5.6 ...Coded record input (e.g., IC card or key)  
 340/5.61 ....Wireless transceiver
- 2 340/5.7 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/5.1 .Intelligence comparison for controlling  
 340/5.2 ..Authorization control (e.g., entry into an  
 area)  
 340/5.7 ...Access barrier
- 2 361/115 (1 OR, 1 XR)  
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
 361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
 361/115 .With specific circuit breaker or control  
 structure
- 2 361/147 (1 OR, 1 XR)  
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
 361/139 CONTROL CIRCUITS FOR ELECTROMAGNETIC DEVICES  
 361/143 .Systems for magnetizing, demagnetizing, or  
 controlling the magnetic field  
 361/147 ..With permanent magnet
- 2 361/152 (0 OR, 2 XR)  
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
 361/139 CONTROL CIRCUITS FOR ELECTROMAGNETIC DEVICES  
 361/143 .Systems for magnetizing, demagnetizing, or  
 controlling the magnetic field  
 361/152 ..Including particular drive circuit

10659859\_CLSTITLES

- 2 361/170 (1 OR, 1 XR)
  - Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
  - 361/139 CONTROL CIRCUITS FOR ELECTROMAGNETIC DEVICES
  - 361/160 .For relays or solenoids
  - 361/170 ..Condition responsive (e.g., external circuit condition)
- 2 388/806 (0 OR, 2 XR)
  - Class 388 : ELECTRICITY: MOTOR CONTROL SYSTEMS
  - 388/800 CLOSED LOOP SPEED CONTROL SYSTEM FOR DC MOTOR WITH COMMUTATOR
  - 388/803 .Field control, or field and armature control, by analog (only) circuitry
  - 388/806 ..By voltage or current modification
- 2 477/13 (1 OR, 1 XR)
  - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
  - 477/7 ELECTRIC ENGINE
  - 477/8 .With clutch control
  - 477/13 ..Electric clutch
- 2 701/70 (1 OR, 1 XR)
  - Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
  - 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
  - 701/70 .Indication or control of braking, acceleration, or deceleration